

# SANAV GPS Tracker Utility Setup Guide

Revision: 1.0.2

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# 1. Notification

## 1.1 Introduction:

This User Manual details how to make the connection from SANAV MU-201 Nano Tracker to your PC. It also details all the features and configuration of GPS Tracker Utility. If you have any problem with the content in this manual, please contact SANAV Customer Service by e-mail [jacky.sun@sanav.com](mailto:jacky.sun@sanav.com).

## 1.2 Disclaimer

This document, and all other related products, such as device, firmware, and software, is developed by SAN JOSE TECHNOLOGY INC. thoroughly. At the time of release, it is most compatible with specified firmware version. Due to the functionalities of the devices are being developed and improved from time to time, the change in the protocol, specification, and firmware functions are subjects to change without prior notice. SANAV is obligated to modify all the documentation without the limitation of time frame. A change notice shall be released to SANAV customers upon the completion of document modification.

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## 1.4 Document Amendments

Revision	Date	GPS Tracker Utility Version	Comments
1.0.1	2012/7/17	V1.01	Optimized for MU-201, MU-58
1.0.2	2013/8/1	V1.02	Modify <b><i>schedule</i></b> function :To enable/disable all the stages of schedule.

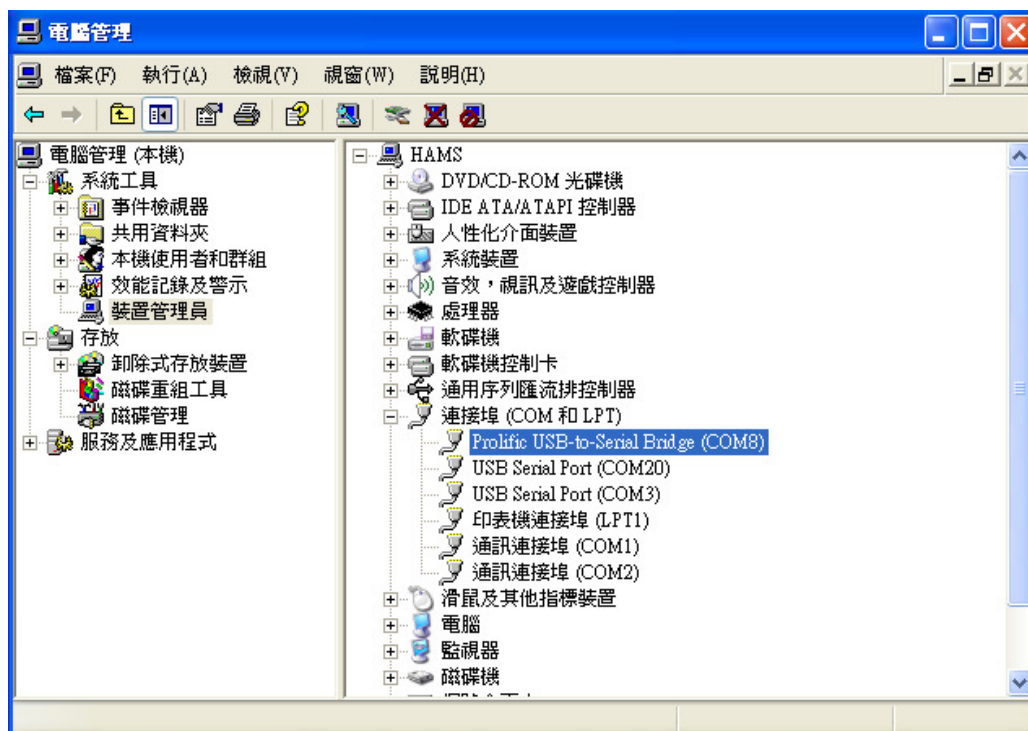
## 2. Installation

### 2.1 Connect the device to your PC

1. Install the USB Driver and the GPS tracker Utility in the CD.
2. Turn on MU-201 before connecting it to a PC.
3. Plug in the AP Cable (connect USB to PC and Mini USB to MU201).

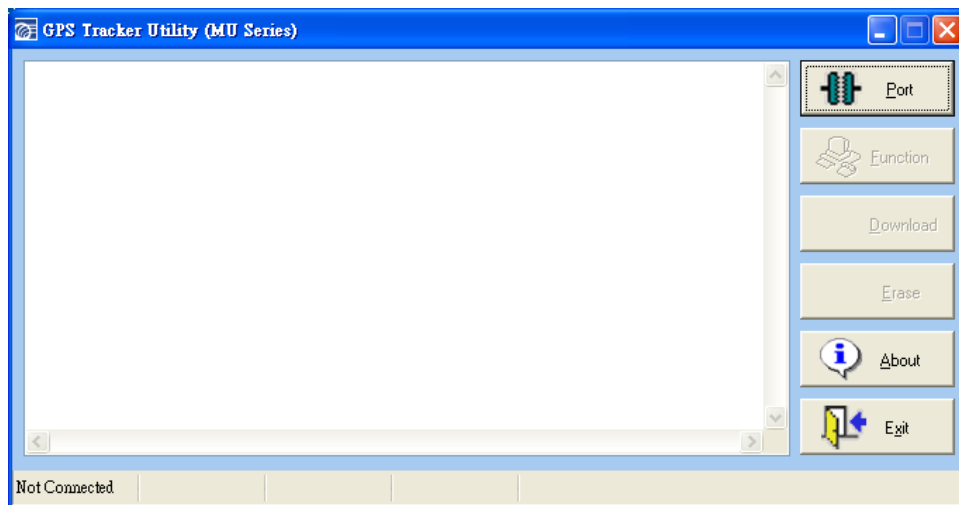


4. Check the COM Port from "Hardware Manager" in Windows OS

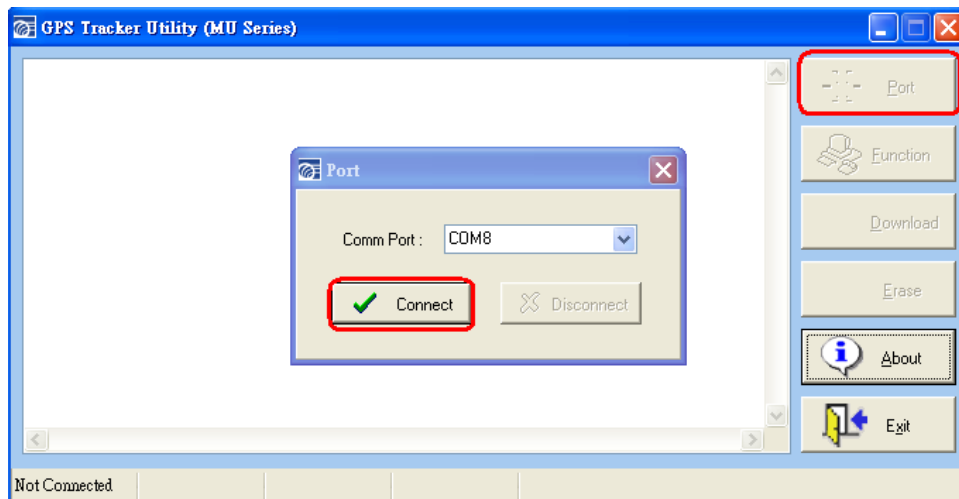


## 2.2 Start up GPS Tracker Utility

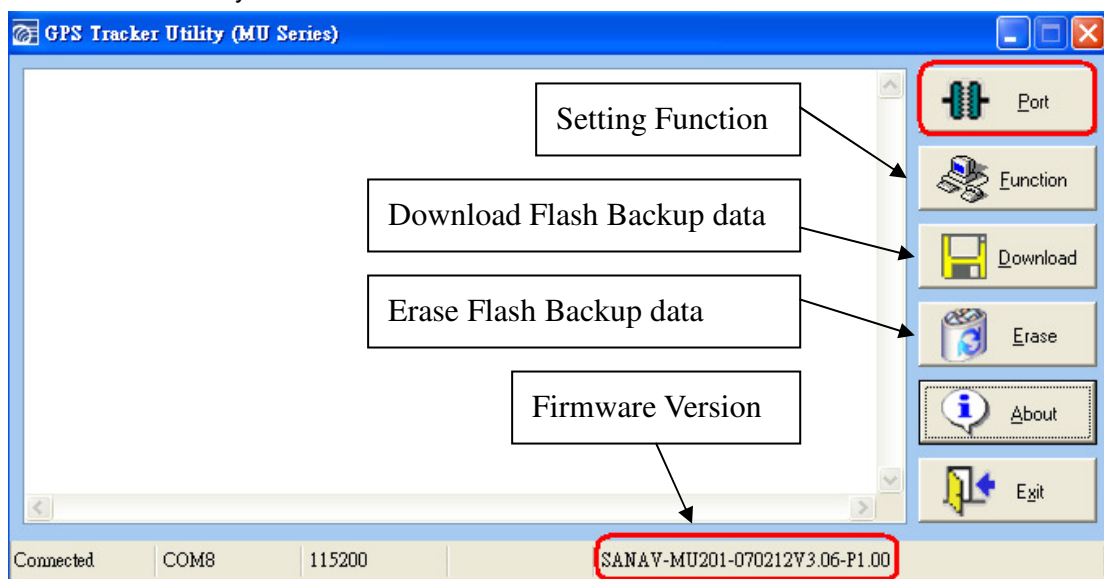
4. The main screen of GPS Tracker Utility (MU Series).



5. Execute GPS Tracker Utility. Click on “Port” and select the Comm Port then Connect



6. Features on utility



## 3. Setting Function

### 3.1 User Settings:

The screenshot shows the 'MU-201 Setting Function' application window. The 'User Settings' section is highlighted with a red border. It contains the following fields:

- ☐ Username:  ☐ Pin Code:
- ☐ Password:  (New)  (Check)
- ☐ Phone Book: 1.  2.  3.
- ☐ SOS Phone:

The 'Security Settings' section contains:

- ☐ Security Phone Switch:  (0: OFF, 1: ON)
- ☐ Security Phone Book: 1.  6.   
2.  7.   
3.  8.   
4.  9.   
5.  10.

On the right side of the window, there are buttons: Save, Load, Default, Save File, Load File, and Close.

Username: At the maximum of 16 letters. (Letters have to be "a~z, A~Z, 0~9, @ - /")

Pin Code: 4 digits of number to enable SIM service

Password: 4 digits of number

Phone Book: 3 sets of phone number. Max: 19 digits

SOS Phone: 1 set of phone number, Max.19 digits

Note that both adding and not adding the "+" sign in front of the cellular phone number(s) are both acceptable, while the "+" sign should precede the national code.

#### 3.1.1 Security Settings:

Security Phone Switch: Enable or Disable Security Phone function.

Security Phone Book: You can input 10 sets of Security Phone Numbers here.

## 3.2 GPRS Settings :

**MU-201 Setting Function**

File Settings Help

User Settings  
**GPRS Settings**  
 Mode Settings  
 Report Settings  
 Geofence Settings  
 Vibration Settings  
 Power Settings

**GPRS Settings**

Route: 7 { 0: HTTP/SMS, 2: HTTP, 4: SMS, 6: TCP/SMS, 7: TCP, 8: UDP/SMS, 9: UDP }

APN: internet Username:

DNS: Password:

URL: http://www.sanavtw.com/uploadM1.php

TCP / UDP: 220.128.123.1 (IP Address / URL) 6600 (Port)

Save Load Default Save File Load File Close

Route :

Router code	Representation
0	HTTP/SMS, send data to URL, if the URL is untouchable, then send it via SMS instead.
2	HTTP only, send data to URL, if the URL is untouchable, it won't send the data by SMS.
4	SMS only, send data by SMS only.
6	TCP/SMS, send data to an assigned IP address, if the IP is untouchable, then send it via SMS instead.
7	TCP Only, only send data to an assigned IP address.
8	UDP/SMS; send data to an assigned IP address, if the IP is untouchable, then send it via SMS instead.
9	UDP Only; only send data to an assigned IP address

APN: Define the APN for the GPRS communication

APN reference: [http://forum.gpsgate.com/topic.asp?topic\\_id=6669](http://forum.gpsgate.com/topic.asp?topic_id=6669)

URL: For HTTP or HTTP/SMS protocol

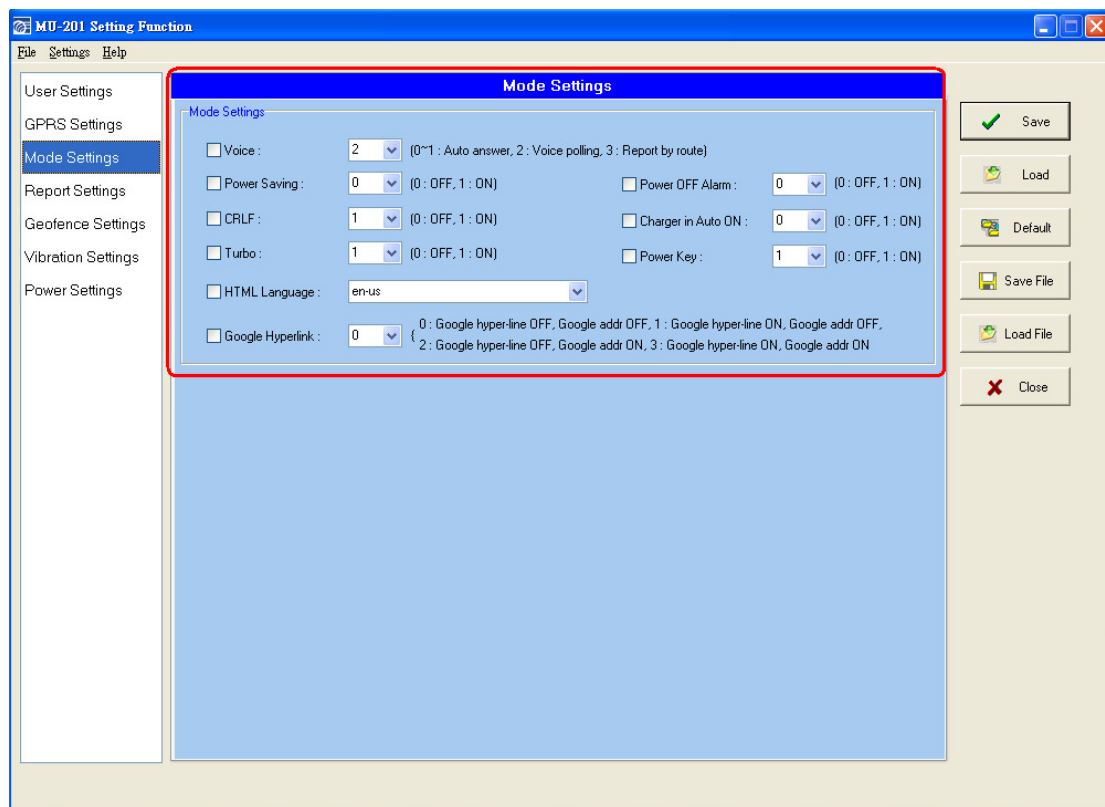
TCP/UDP: The IP/Port for TCP, TCP/SMS, UDP or UDP/SMS protocol

(IP Address or **Domain Name**)

Setup Server: The IP/Port for COTA (commands by GPRS)



### 3.3 Mode Setting :



Field	Descriptions	Range
Voice	The tracker will respond differently according to the settings when the call center calls the device	(0~1): Auto answer. 2: Hang up the call and then send a POLL message to call number 3: Hang up the call and then send a POLL message to assigned URL or IP(By route)
Power saving	GPS power saving setting	0: Power saving 1: No power saving
Crlf	When report router is set to TCP/UD, to add<CR><LF> for each report sentence..	0: turn off 1: turn on, when send data to TCP/UDP with CRLF
Turbo	Keep the connection alive to the server when report router is set to TCP/UDP.	0: turn off 1: turn on, after send don't close server connection
Power OFF Alarm	The device sends the last report with power off message when pressing power button to turn off it.	0: Off 1: On

Charger in Auto ON	The device automatically turns ON when plugging in charging cable with power source.	0: Off 1:On
Power Key	To enable or disable power button function.	0: Off 1:On
HTML Language	The language type of Google map address (please refer to Google Hyperlink)	En-us, zh-tw,ar-AE...etc.
Google Hyperlink	The GPRMC data shown on cell phone can be replaced with Google map hyperlink to check the positions on map with address directly	0: link OFF, address OFF 1: link ON, address OFF 2: link OFF, address ON 3: link ON, address ON

## 3.4 Report Settings

### 3.4.1 Auto Report

Field	Descriptions	Range
Report Interval	Report time interval <b>Note* the numbers will be rounded to the next Time Unit automatically;</b> you can put the number in the preferred column of Time Units.	A constant interval of sending data
Total Report	Amount of report	0~9999, where 0 means turning off the Auto Report and 9999 means infinite
Distance Interval	The distance interval when reporting by distance. When the auto report function is activated, the tracker will take the current position as the center point, if this value is defined, the tracker will take this value as the radius in meter to make a circle. When the tracker exceeds this circle, it will report assigned URL or IP.	0 ~ 9999m
Stationary Detection	Report interval when stationary. If this value is defined by X, the tracker will do detection according to Report Interval. When it exceeds the circle, it will send out an AUTO report. If it doesn't exceed this circle for X times, the tracker will send a notice message.	2~9999

### 3.4.2 Over Speed Settings

Field	Descriptions	Range
Over Speed Decect	Over Speed Detection ON/OFF	0: Off 1:On
Speeding On Threshold	Speed Limit of Over Speed Event	1~65000 km/h
Report Interval	The report interval when Over Speed.	1~65000 in seconds
Total Report	Amount of report	1~9999, 9999 means infinite

### 3.4.3 Panic

Field	Descriptions	Range
Report Interval	Tick the "Panic" and the tracker will send report when the "SOS" is pressed. The tracker will report periodically according to this setting.	1~65000 in seconds
Total Report	Amount of report	1~9999, 9999 means infinite

### 3.4.4 Move

Field	Descriptions	Range
Report Interval	Tick the "Move" and the tracker will send the report(s) when "Park" is activated and the MU-201 is moved. it will then report periodically according to the settings.	1~65000 in seconds
Total Report	Amount of report	1~9999, 9999 means infinite

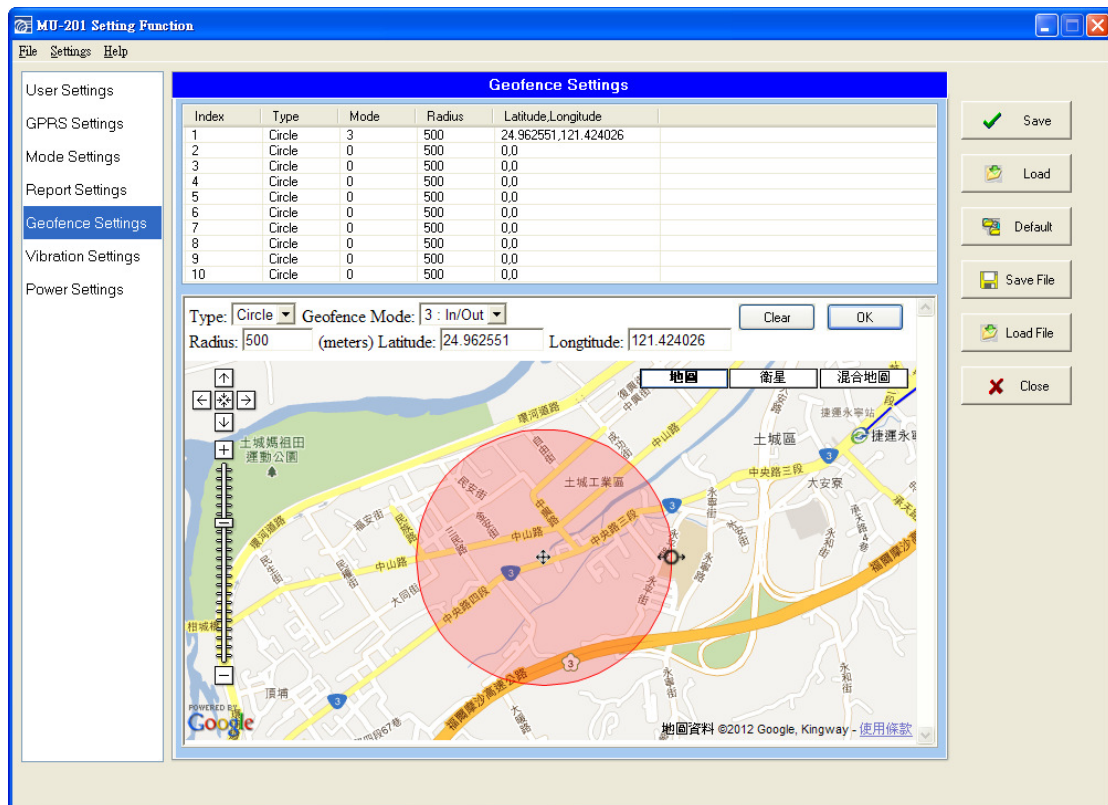
### 3.4.5 Geofence

Field	Descriptions	Range
Report Interval	Tick the "Geofence" and the tracker will send the report(s) when the "Geofence" is activated and triggered. It will report periodically according to this setting.	1~65000 in seconds
Total Report	Amount of report	1~9999, 9999 means infinite

### 3.4.6 Report Tail

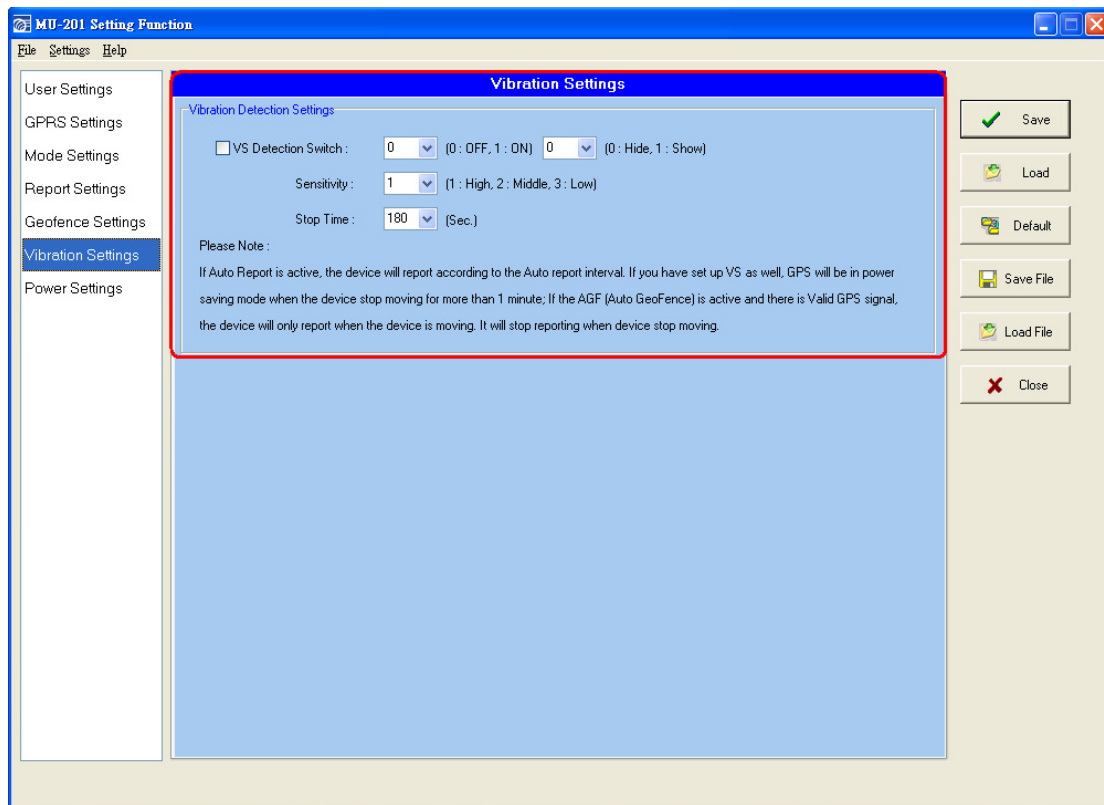
Field	Descriptions	Range
Report Tail	By enabling "Tail Report", there will be additional information included in each report data. The additional data including RSSI, vibration sensor status, report number, charger status, and Cell ID information.	0: Off 1: On
Report Tail Sequence	Enter the corresponded letters to determine how much tail information would be shown	ABCDEFGHIJ
Voltage Percentage	The device voltage indicator shown in %	0: Off 1: On

### 3.5 Geofence Settings



Field	Descriptions	Range
Lat.	Latitude	dd.dddddd
Long.	Longitude	ddd.dddddd
Range	Radius in meter	100~9999 meters
Geofence Mode	Geofence trigger setting	0: Off 1: Exclusion 2: Inclusion 3: Exclusion and Inclusion

## 3.6 Vibration Settings



### Note:

If you have set up VS as well, GPS will be in power saving mode when the device stop moving for more than 3 minute (Default 180 seconds, you can change the number to 60/120/180/240/300 secs)

Field	Descriptions	Range
off	Disable Vibration Function	
on	Enable Vibration Function	
Hide	To hide Move/Stop status messages	
Show	To show Move/Stop status messages	

### Vibration Sensitivity

Field	Descriptions	Range
1: High	High Vibration Sensitivity	1 – Most sensitive to vibration
2: Middle	Middle Vibration Sensitivity	2 – lesser sensitive to vibration
3: Low	Low Vibration Sensitivity	3- Least sensitive to vibration

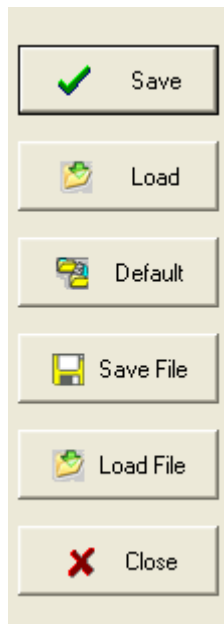
### 3.7 Power Settings

The screenshot shows the 'MU-201 Setting Function' window. The 'Power Settings' section is active. It includes a 'Schedule Power Settings' area with four time slots, each with a dropdown for 'ON' or 'OFF' and a time input (0000) with '(hhmm)' units. Below this is an 'Enable all / Disable all' section with a checkbox and two radio buttons: 'Enable all : To enable all the 4 stages of the schedule.' and 'Disable all : To disable all the 4 stages of the schedule.' The right sidebar contains buttons for 'Save', 'Load', 'Default', 'Save File', 'Load File', and 'Close'.

Field	Descriptions	Range
ON	User can use the command to set up the power on/off schedule per day of the device.  There are totally 4 stages of a day can be scheduled.	ON: Power ON OFF: Power OFF
0000	GMT time	0000~2359
Enable all	Power ON all the 4 stages of schedule	
Disable all	To disable all the 4 stages of schedule	※If the user wants to disable any one of four stages of "Schedule Power Switch", they must select "Disable all" then change the status for each status of "Schedule Power Switch".



## 4. Button Function



**Save:** To save the setting that has been done. **After saving the setting, reboot the MU-201 in order to restore the new setting.**

**Load:** To view the current settings.

**Default:** All parameters returned to default

**Save File:** Save the current setting as a file

**Load File:** Load previous file of setting.

**Close:** Exit the utility

## 5. FAQ

Not in command mode	Please turn ON MU-201 before connecting to PC.
	Please check if you have installed USB Driver.
	Please check the correct COM Port in Device Manager (Windows)
	Please make sure you used the correct USB Data Cable (Not the charging Cable.)